

REMARKS/ARGUMENTS

No Claims have been amended. No Claims have been cancelled without prejudice. No Claims have been added.

35 U.S.C. § 102(b) Rejections

Examiner rejected claims 1, 3, 5-9 and 13-15 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent 5,634,199 (hereinafter "Gerlach"). The Applicant respectfully disagrees and submits the following argument in defense of his position.

As understood by the Applicant, Gerlach concerns reducing crosstalk in an SDMA (Spatial Division Multiple Access) system. Thus, Gerlach describes modifying two signal with different weight vectors to transmit the two signals to two different users. See, e.g., Figure 1, where signal $s_1(t)$ is modified using vector w_1 and is sent to user a_1 , while signal $s_2(t)$ is modified using vector w_2 and is sent to user a_2 .

In contrast, claim 1 requires "generating a plurality of sub-carriers to redundantly transmit the information to a user over a multi-carrier wireless communication channel, wherein each of the sub-carriers is modified by a set of complex weights to ensure that each of the sub-carriers of the wireless communication channel propagates along a different physical path to the receiver." (underline for emphasis)

The system described in Gerlach is not a multi-carrier system, thus it cannot teach sub-carriers. Furthermore, the signals in Gerlach do not "redundantly transmit" since they are directed at different users. Also, Gerlach does not teach transmitting the information to "a user," since Gerlach describes

sending signals to more than one users. Therefore claim 1 is allowable. Independent claim 7, which contains limitations similar to claim 1, is thus also allowable. All claims dependent on these allowable independent claims and adding further limitations are thus also allowable.

35 U.S.C. § 103(a) Rejections

Examiner rejected claim 2 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 5,634,199 (hereinafter "Gerlach") in view of U.S. Patent 6,754,467 (hereinafter "Ide"). Claim 2 is dependent on claim 1, which is allowable for the reasons stated above. Since claim 2 adds further limitations, and Ide does not teach or suggest the limitations of claim 1, claim 2 is also allowable.

35 U.S.C. § 103(a) Rejections

Examiner rejected claims 4 and 10-12 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 5,634,199 (hereinafter "Gerlach") in view of U.S. Patent 6,452,981 (hereinafter "Raleigh"). Claim 4 is dependent on claim 1, which is allowable for the reasons stated above. Since claim 4 adds further limitations, and Raleigh does not teach or suggest the limitations of claim 1, claim 4 is also allowable. Furthermore, claims 10-12 are dependent on claim 7, which is allowable for the reasons stated above. Since claims 10-12 add further limitations, and Raleigh does not teach or suggest the limitations of claim 7, claims 10-12 are also allowable.

CONCLUSION


Applicant respectfully submit the present application is in condition for allowance. If the Examiner believes a telephone conference would expedite or assist in the allowance of the present application, the Examiner is invited to call Adam Furst at (408) 947-8200.

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due.

Respectfully submitted,

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Date: October 8, 2004


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